

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2770	chitosan same (link\$3 crosslink\$3 cross link\$3)	US-PGPUB; USPAT	ADJ	ON	2006/01/13 10:39
L2	1282	gelatin and I1	US-PGPUB; USPAT	ADJ	ON	2006/01/13 10:39
L3	2759	gelatin with chitosan	US-PGPUB; USPAT	ADJ	ON	2006/01/13 10:40
L4	626	I3 and I2	US-PGPUB; USPAT	ADJ	ON	2006/01/13 10:40
L5	34	chitosan same (transglutaminase or tyrosinase)	US-PGPUB; USPAT	ADJ	ON	2006/01/13 10:40
L6	12	I5 and I4	US-PGPUB; USPAT	ADJ	ON	2006/01/13 10:40

* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:44:12 ON 13 JAN 2006

=> file bioscience
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 0.21 | 0.21 |

=> set plurals on
SET COMMAND COMPLETED

=> index bioscience
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 92.16 | 92.37 |

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
CEABA-VTB, CIN, CONFSCI, CROPB, CROPUS, DDFB, DDFU, DGENE, DISSABS, DRUGB,
DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 10:44:40 ON 13 JAN 2006

70 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s chitosan(s) (link? or crosslink? or cross link?)
2 FILE ADISCTI
1 FILE ADISINSIGHT
46 FILE AGRICOLA
52 FILE ANABSTR
58 FILE ANTE
14 FILE AQUALINE
18 FILE AQUASCI
197 FILE BIOENG
382 FILE BIOSIS
210 FILE BIOTECHABS
210 FILE BIOTECHDS
159 FILE BIOTECHNO
71 FILE CABA
2110 FILE CAPLUS
116 FILE CEABA-VTB
1 FILE CIN
6 FILE CONFSCI
3 FILE CROPUS

20 FILES SEARCHED...

108 FILE DDFU
111 FILE DGENE
38 FILE DISSABS
158 FILE DRUGU
15 FILE EMBAL
390 FILE EMBASE
202 FILE ESBIOBASE
5* FILE FEDRIP
57 FILE FROSTI
88 FILE FSTA
2 FILE GENBANK

36 FILES SEARCHED...

408 FILE IFIPAT
1 FILE IMSDRUGNEWS
1 FILE IMSRESEARCH
162 FILE JICST-EPLUS
9 FILE KOSMET
98 FILE LIFESCI
306 FILE MEDLINE
10 FILE NTIS
3 FILE OCEAN
699 FILE PASCAL
6 FILE PHIN

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      38   FILE PROMT
    883   FILE SCISEARCH
    388   FILE TOXCENTER
   2599   FILE USPATFULL
    269   FILE USPAT2
 65 FILES SEARCHED...
    16   FILE WATER
   922   FILE WPIDS
    13   FILE WPIFV
   922   FILE WPINDEX

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49 FILES HAVE ONE OR MORE ANSWERS, 70 FILES SEARCHED IN STNINDEX

L1 QUE CHITOSAN(S) (LINK? OR CROSSLINK? OR CROSS LINK?)

=> d rank

| | | |
|-----|------|-------------|
| F1 | 2599 | USPATFULL |
| F2 | 2110 | CAPLUS |
| F3 | 922 | WPIDS |
| F4 | 922 | WPINDEX |
| F5 | 883 | SCISEARCH |
| F6 | 699 | PASCAL |
| F7 | 408 | IFIPAT |
| F8 | 390 | EMBASE |
| F9 | 388 | TOXCENTER |
| F10 | 382 | BIOSIS |
| F11 | 306 | MEDLINE |
| F12 | 269 | USPAT2 |
| F13 | 210 | BIOTECHABS |
| F14 | 210 | BIOTECHDS |
| F15 | 202 | ESBIOBASE |
| F16 | 197 | BIOENG |
| F17 | 162 | JICST-EPLUS |
| F18 | 159 | BIOTECHNO |
| F19 | 158 | DRUGU |
| F20 | 116 | CEABA-VTB |
| F21 | 111 | DGENE |
| F22 | 108 | DDFU |
| F23 | 98 | LIFESCI |
| F24 | 88 | FSTA |
| F25 | 71 | CABA |
| F26 | 58 | ANTE |
| F27 | 57 | FROSTI |
| F28 | 52 | ANABSTR |
| F29 | 46 | AGRICOLA |
| F30 | 38 | DISSABS |
| F31 | 38 | PROMT |
| F32 | 18 | AQUASCI |
| F33 | 16 | WATER |
| F34 | 15 | EMBAL |
| F35 | 14 | AQUALINE |
| F36 | 13 | WPIFV |
| F37 | 10 | NTIS |
| F38 | 9 | KOSMET |
| F39 | 6 | CONFSCI |
| F40 | 6 | PHIN |
| F41 | 5* | FEDRIP |
| F42 | 3 | CROPUS |
| F43 | 3 | OCEAN |
| F44 | 2 | ADISCTI |
| F45 | 2 | GENBANK |
| F46 | 1 | ADISINSIGHT |
| F47 | 1 | CIN |
| F48 | 1 | IMSDRUGNEWS |
| F49 | 1 | IMSRESEARCH |

=> file f2-f11
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE ENTRY | TOTAL SESSION |
|-------------|---------------|
| 3.66 | 96.03 |

=> s 11

L2. 6488 L1

=> s gelatin and 12
L3 496 GELATIN AND L2

=> s gelatin(s)chitosan
L4 2114 GELATIN(S) CHITOSAN

=> s 14 and 13
L5 427 L4 AND L3

=> s chitosan(P)(transglutaminase or tyrosinase or glutamine or tyrosine)
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'CHITOSAN(P)(TRANSGLUT'
L6 748 CHITOSAN(P)(TRANSGLUTAMINASE OR TYROSINASE OR GLUTAMINE OR TYROS
INE)

=> s 16 and 15
L7 41 L6 AND L5

=> dup rem 17
PROCESSING COMPLETED FOR L7
L8 30 DUP REM L7 (11 DUPLICATES REMOVED)

=> s 18 and py<2003
2 FILES SEARCHED...
4 FILES SEARCHED...
L9 2 L8 AND PY<2003

=> d bib abs 1-2

L9 ANSWER 1 OF 2 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
STN

AN 1994:705753 SCISEARCH
GA The Genuine Article (R) Number: PP117
TI TYROSINASE-MEDIATED QUINONE TANNING OF CHITINOUS MATERIALS
AU MUZZARELLI R A A (Reprint); ILARI P; XIA W S; PINOTTI M; TOMASETTI M
CS UNIV ANCONA, FAC MED, I-60100 ANCONA, ITALY (Reprint); UNIV ANCONA, DEPT
MECH, I-60100 ANCONA, ITALY

CYA ITALY
SO CARBOHYDRATE POLYMERS, (***1994***) Vol. 24, No. 4, pp. 295-300.
ISSN: 0144-8617.

PB ELSEVIER SCI LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD, OXON,
ENGLAND OX5 1GB.

DT Article; Journal

FS PHYS; LIFE; AGRI

LA English

REC Reference Count: 13

ED Entered STN: 1994

Last Updated on STN: 1994

AB *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
Stable and self-sustaining gels were obtained from ***tyrosine***
glucan (a modified ***chitosan*** synthesized with
4-hydroxyphenylpyruvic acid) in the presence of ***tyrosinase*** .
Similar gels were obtained from 3-hydroxybenzaldehyde,
4-hydroxybenzaldehyde and 3,4-dihydroxybenzaldehyde: all of them were
hydrolyzed by lysozyme, lipase and papain. Microcapsules were similarly
obtained by introducing ***tyrosinase*** in a water-in-oil emulsion
containing ***tyrosine*** glucan in the water phase. No ***cross***
- ***linking*** was observed for ***chitosan*** derivatives of
vanillin, syringaldehyde and salicylaldehyde. Collagen- ***chitosan***
-tannin mixtures were also studied under the catalytic action of
tyrosinase : partially crystalline, hard, mechanically resistant
and scarcely wettable materials were obtained upon drying. By contrast,
products obtained from albumin, pseudocollagen and ***gelatin*** , in
the presence of a number of phenols and ***chitosan*** under
comparable conditions, were brittle.

L9 ANSWER 2 OF 2 IFIPAT COPYRIGHT 2006 IFI on STN

AN 02226305 IFIPAT;IFIUDB;IFICDB
TI MICROWAVE BROWNING COMPOSITION; FOR COATING A FOOD PRODUCT; AMINO ACID
ENCAPSULATED IN A LIPOSOME HAVING A REDUCING SUGAR IN THE EXTERNAL
AQUEOUS PHASE

INF Haynes, Lynn C, Morris Plains, NJ
Levine, Harry, Morris Plains, NJ

Mathewson, Paul, Whippany, NJ
Otterburn, Michael S, Randolph, NJ
IN Haynes Lynn C; Levine Harry; Mathewson Paul; Otterburn Michael S
PAF Nabisco Brands, Inc, East Hanover, NJ
PA Nabisco Brands Inc (7734)
EXNAM Czaja, Donald E
EXNAM Federman, Evan
PI US 5089278 A 19920218 (CITED IN 007 LATER PATENTS)
AI US 1989-360582 19890602
XPD 2 Jun 2009
FI US 5089278 19920218
DT Utility; REASSIGNED; EXPIRED
FS CHEMICAL
GRANTED
MRN 005132 MFN: 0836
006059 0606
008579 0766
CLMN 65
GI 1 Drawing Sheet(s), 1 Figure(s).
AB A heat- or microwave-activated browning composition is prepared for coating a food product to produce surface browning on exposure to heat or microwave energy. A method of browning a food product includes the steps of coating a food product with a microwaveable browning composition and subjecting the coated product to heat or microwave energy. The microwaveable browning composition includes at least one liposome-encapsulated Maillard browning reagent. A basic amino acid is encapsulated in the aqueous interior of the liposome. A reducing sugar is dissolved in the external aqueous phase of the liposome. The external aqueous phase may also contain a film-forming material. The Maillard browning reaction is triggered by heat or microwave energy. This heat or microwave energy causes the liposomes to rupture, releasing amino acid to react with reducing sugar, producing Maillard browning products. If a basic amino acid is used, the reaction is further catalyzed by a rise in pH of the external aqueous phase upon release of the amino acid from the liposome. Furthermore, phospholipids (from which the liposome vesicles are made) can enhance the extent and rate of Maillard browning product formation.
CLMN 65
GI 1 Drawing Sheet(s), 1 Figure(s).

=> d his

(FILE 'HOME' ENTERED AT 10:44:12 ON 13 JAN 2006)

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ESBIOBASE, FEDRIP, ...' ENTERED AT 10:44:22 ON 13 JAN 2006

SET PLURALS ON

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 10:44:40 ON 13 JAN 2006
SEA CHITOSAN(S) (LINK? OR CROSSLINK? OR CROSS LINK?)

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|------|------|-------------|
| 3 | FILE | CROPUS |
| 108 | FILE | DDFU |
| 111 | FILE | DGENE |
| 38 | FILE | DISSABS |
| 158 | FILE | DRUGU |
| 15 | FILE | EMBAL |
| 390 | FILE | EMBASE |
| 202 | FILE | ESBIOBASE |
| 5* | FILE | FEDRIP |
| 57 | FILE | FROSTI |
| 88 | FILE | FSTA |
| 2 | FILE | GENBANK |
| 408 | FILE | IIFIPAT |
| 1 | FILE | IMSDRUGNEWS |
| 1 | FILE | IMSRESEARCH |
| 162 | FILE | JICST-EPLUS |
| 9 | FILE | KOSMET |
| 98 | FILE | LIFESCI |
| 306 | FILE | MEDLINE |
| 10 | FILE | NTIS |
| 3 | FILE | OCEAN |
| 699 | FILE | PASCAL |
| 6 | FILE | PHIN |
| 38 | FILE | PROMPT |
| 883 | FILE | SCISEARCH |
| 388 | FILE | TOXCENTER |
| 2599 | FILE | USPATFULL |
| 269 | FILE | USPAT2 |
| 16 | FILE | WATER |
| 922 | FILE | WPIDS |
| 13 | FILE | WPIFV |
| 922 | FILE | WPINDEX |

QUE CHITOSAN(S) (LINK? OR CROSSLINK? OR CROSS LINK?)

FILE 'CAPLUS, WPIDS, SCISEARCH, PASCAL, IFIPAT, EMBASE, TOXCENTER, BIOSIS, MEDLINE' ENTERED AT 10:48:02 ON 13 JAN 2006

L2 6488 S L1
L3 496 S GELATIN AND L2
L4 2114 S GELATIN(S)CHITOSAN
L5 427 S L4 AND L3
L6 748 S CHITOSAN(P) (TRANSGLUTAMINASE OR TYROSINASE OR GLUTAMINE OR TY
L7 41 S L6 AND L5
L8 30 DUP REM L7 (11 DUPLICATES REMOVED)
L9 2 S L8 AND PY<2003

STN INTERNATIONAL LOGOFF AT 11:02:52 ON 13 JAN 2006